**REMARKS** 

[0002] Applicant respectfully requests reconsideration and allowance of all of the

claims of the application. The status of the claims is as follows:

• Claims 1-3, 14, 15, 19, 20, 22, and 26 are currently pending

• Claims 1, 14, 20, and 22 are amended herein

[0003] Support for the amendments to the claims is found in the specification at least

in paragraph 39, in Table 1 on page 11, and in claim 20.

**Cited Documents** 

[0004] The following documents have been applied to reject one or more claims of

the Application:

• Carlucci: Carlucci et al, U.S. Patent Application Publication No. 2004/0015999

MacInnis: MacInnis, Alexander G., U.S. Patent Application Publication No.

2003/0028899

• **Eyal**: Eyal, Aviv, U.S. Patent No. 6,484,199

Claims 1-3, 14, 15, 19, 20, 22, and 26 Are Non-Obvious Over Carlucci in view

of MacInnis in further view of Eyal

[0005] Claims 1-3, 14, 15, 19, 20, 22, and 26 stand rejected under 35 U.S.C. § 103(a)

as allegedly being obvious over Carlucci in view of MacInnis in further view of Eyal.

Applicant respectfully traverses the rejection.

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## Independent Claim 1

**[0006]** Applicant submits that the cited references do not teach or suggest at least the following features of this claim, as amended (with emphasis added):

receiving, by head-end equipment from a content provider, a digital television (DTV) application and its associated metadata, wherein the receiving is facilitated by an extended asset definition interface, the extended asset definition interface specifying a data structure including the DTV application and metadata attributes consisting of:

an application identifier field for identifying the DTV application;

an originator identifier field for identifying an originator of the DTV application;

an application-type field for indicating a type of the DTV application and specifying a runtime environment needed to run the DTV application;

a profile field for indicating a minimum profile of a system on which the DTV application will execute;

a visibility field for indicating the degree of control a user has over the DTV application;

a permission field for denoting "sandbox" security permission of the DTV application; and

a rating field for indicating a rating of the DTV application;

generating, by the head-end equipment, an application information table for conveying application signaling information to a DTV receiving unit, the application information table being generated based on the associated metadata;

generating, by the head-end equipment, a content referencing identifier for the DTV application;

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registering, by the head-end equipment, an authority record with an authority to enable the DTV receiving unit to resolve the content referencing identifier;

generating, by the head-end equipment, a data grouping having the application information table and the content referencing identifier;

sending, by the head-end equipment, a transmission to the DTV receiving unit, wherein such transmission comprises the data grouping, whereby the application signaling information is used by the DTV receiving unit to discover and launch the DTV application,

wherein the head-end equipment, the content provider, and the DTV receiving unit are each separate and distinct from each other, and

wherein the extended asset definition interface is defined to correspond to information that an application signaling generator of the head-end equipment needs to generate the application information table

[0007] In rejecting claim 1, the Examiner cites the receiver 78 in Fig. 5a of Carlucci as describing the extended asset definition interface recited by claim 1. That receiver is further discussed in paragraph 87 of Carlucci as being one or more satellite dishes and as coupling received signal streams to a head-end processor. No mention is made, however, of the receiver 78 "specifying a data structure." Because claim 1 requires the extended asset definition interface to specify a data structure, the receiver 78 of Carlucci cannot possibly teach or suggest the extended asset definition interface.

**[0008]** The Examiner then proceeds in the rejection to cite various portions of Carlucci as disclosing the fields of the data structure specified by the extended asset definition interface, such as the application identifier field, etc. The portions cited as disclosing these fields, such as paragraph 56 of Carlucci, describe data included in the transmitted content stream received by the head-end of Carlucci, however. They do not

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describe fields of a data structure specified by an extended asset definition interface.

Carlucci simply does not describe any such extended asset definition interface or data

structure specified by that interface.

[0009] Also in rejecting claim 1, the Examiner points to the PIC of paragraph 56 of

Carlucci as describing the "application-type field for indicating a type of the DTV

application." The PIC is described as identifying a program or program segment. No

mention, however, is made of the PIC or anything else which identifies a type of the

DTV application.

[0010] Further in rejecting claim 1, the Examiner points to paragraphs 55, 60, 62, 70,

and 74 as disclosing "generating, by the head-end equipment, an application

information table for conveying application signaling information to a DTV receiving

unit." Of these paragraphs, the only one to mention a table is paragraph 74. The table

mentioned in paragraph 74, however, is a table included in a segmentation message

that is received by the head-end. And because the head-end receives the table, it does

not generate the table, as recited by claim 1, and in fact teaches away from doing so.

[0011] Additionally, Applicant has amended claim 1 to further recite that the extended

asset definition interface "is defined to correspond to information that an application

signaling generator of the head-end equipment needs to generate the application

information table." Despite the previous inclusion of similar recitations in claim 20, the

Examiner has not cited any portion of any of the references as teaching or suggesting

such recitations. Applicant has diligently searched the references and can find no

teaching or suggestion of these recitations. Accordingly, at least by virtue of their

addition, the rejection of claim 1 is overcome.

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[0012] Also, Applicant has amended claim 1 to recite that the "application-type field"

specifies "a runtime environment needed to run the DTV application". This feature has

not been previously recited in the claims, and therefore has not been rejected by the

Examiner. Applicant has diligently searched the references and can find no teaching or

suggestion of these recitations. Accordingly, at least by virtue of their addition, the

rejection of claim 1 is overcome.

[0013] Consequently, the cited references do not teach or suggest all of the elements

and features of this claim. Accordingly, Applicant respectfully requests that the rejection

of this claim be withdrawn.

Independent Claims 14, 20, and 22

[0014] Claims 14, 20, and 22 include recitations similar to those discussed above with

regard to claim 1. Accordingly, for at least reasons similar to those given above with

reference to claim 1, claims 14, 20, and 22 are also patentable over the cited

references.

Dependent Claims 2, 3, 15, 19, and 26

[0015] Claims 2, 3, 15, 19, and 26 ultimately depend from independent claims 1, 14,

and 22. As discussed above, claims 1, 14, and 22 are patentable over the cited

documents. Therefore, claims 2, 3, 15, 19, and 26 are also patentable over the cited

documents of record for at least their dependency from a patentable base claim. These

claims may also be patentable for the additional features that each recites.

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## **Conclusion**

[0016] If any issues remain that would prevent allowance of this application,

Applicant requests that the Examiner contact the undersigned representative

before issuing a subsequent Action.

Respectfully Submitted,

Lee & Hayes, PLLC Representative for Applicant

/Robert C. Peck/ Dated: 02/12/2010

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